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B. P. I.-124.

B. I. E.—62

# LEGAL AND CUSTOMARY WEIGHTS PER BUSHEL OF SEEDS.<sup>1</sup>

## INTRODUCTION.

While the selling of seeds by the measured bushel has largely disappeared in the trade, the weight per bushel still has an important value in determining grade, especially in grass seeds, which vary greatly in quality. Redtop seed, weighing 10 pounds per bushel, is composed largely of chaff and contains a very small percentage of good seed, while fancy seed, containing from 85 to 95 per cent of pure seed, weighs from 35 to 40 pounds per bushel. Similar variations in weight exist in connection with the handling of other common grass seeds, such as bluegrass, orchard grass, brome-grass, rye-grass, and the fescues. The weights per bushel of grains do not vary as much as do those of grass seeds, but nevertheless the weight per bushel is an important factor to be considered in grading.

#### LEGAL WEIGHTS PER BUSHEL.

The weights per bushel for all seeds for which weights per bushel have been established by law are given in Table I. These have been taken from the latest statutes and have been verified by the secretaries of state of each State. In several instances the legal weights are obviously misleading and should be changed. There is evidently an error in the Louisiana statute, which gives the weight for both barley and rye as 32 pounds. The weights for buckwheat vary from 40 to 52 pounds in different States. The legal weights for oats should be made more nearly uniform; in Pennsylvania and West Virginia the legal weight is 32 pounds, in Virginia 30 pounds, and in Maryland 26 pounds. The legal weight for Kentucky bluegrass and redtop in all States where a legal weight has been established is 14 pounds. This weight was established before the present methods of cleaning came

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¹The varying use in weights of our common field and garden seeds in different States must necessarily lead to confusion. It is hoped that a more widely disseminated knowledge of this varied usage, such as is pointed out in this paper, will tend to lessen the confusion and bring about greater uniformity. Furthermore, by calling attention to the present unsatisfactory conditions it may aid in preparing the way for the general introduction of the metric system now used in nearly all other civilized countries.

into general use and while the seed was sold in the chaff. Cleaned seed of good grade weighs from two to three times as much, as recorded in detail in Table I, and the legal weights should be changed accordingly.

### CUSTOMARY WEIGHTS PER BUSHEL.

In numerous instances the customary weights per bushel of seeds used by the trade are not the same as the legal weights. The boards of trade and chambers of commerce in the principal cities have reported the customary weights used by them and where these differ from the legal weights they are given in the footnotes to Table I.

Seedsmen handle a large number of grass and forage plant as well as other seeds, for few of which legal weights per bushel have been established. Table II shows the customary weights per bushel used for these seeds by representative seedsmen in the different States. In most instances two weights are given, indicating the differences in quality recognized in the trade. Well cleaned seed of good quality will weigh approximately as much as the higher weight given.

Table I.—Legal weights per bushel of seeds:

|   |           | Field crops.                            |                                   |                          |                           |   |             |                  |              |           |                 |                     |                    |                   |           |           |                |           |
|---|-----------|---|-----------------------------------|--------------------------|---------------------------|---|-------------|------------------|--------------|-----------|-----------------|---------------------|--------------------|-------------------|-----------|-----------|----------------|-----------|
| States and Territories.                             | Wheat.    | Corn, shelled.                          | Corn, in ear.                     | Corn, in ear, unshucked. | Oats.                     | Barley.                                 | Rye.        | Buckwheat.       | Beans.       | Peas.     | Cotton, Upland. | Cotton, Sea Island. | Pop corn, shelled. | Pop corn, in ear. | Hemp.     | Flax.     | Rice, rough.   | Peanuts.  |
| Alabama   | 66        | 56                                      | 70                                | 75                       | 32                        | 47                                      | 56          |                  | 60           | 60        | 32              |                     |                    | :                 |           |           |                |           |
| Arizona   | 60        | 54                                      |                                   |                          | 32                        | 45                                      | 56          | {                | ff 60<br>55  | }         |                 |                     |                    |                   |           |           |                |           |
| Arkansas <sup>a</sup> California <sup>b</sup>       | 60<br>60  | 56<br>b 52                              | 70                                | 74                       | $\frac{32}{\text{b}\ 32}$ | 48<br>b 50                              | 56<br>b 54  | 52<br>b 40       | gg (j0       | 60        | $33\frac{1}{3}$ |                     |                    |                   |           | 56        |                |           |
| Colorado c  | 60        | 56<br>56                                | 70                                |                          | $\frac{32}{32}$           | 48 48                                   | 56<br>56    | c 52<br>48       | 60           | (c)<br>60 | 30              | 44                  |                    |                   | 44        | (c)<br>55 | $\frac{1}{45}$ |           |
| Delaware<br>District of Colum-                      | 60        | 56                                      | ~~                                |                          |                           |   |             |                  |              |           |                 |                     |                    |                   |           |           |                |           |
| bia.cc<br>Florida                                   | -60       | <br>56                                  |                                   | $\frac{1}{70}$           | 32                        | 48                                      | - <u></u>   |                  | 60           |           | 32              | 46                  |                    |                   |           |           |                | <u>22</u> |
| Georgia d<br>Idaho                                  | 60        | 56<br>56                                | 70                                |                          | 32<br>36                  | 47 48                                   | 56<br>56    | 52<br>42         | gg 60        | 60        | 30              |                     |                    |                   | 44        | 56<br>56  | 43             |           |
| Illinois ef   | 60        | 56                                      | 70                                |                          | 32                        | 48                                      | 56          | 52               | gg 60        |           |                 |                     |                    |                   | 44        | 56        |                |           |
| Indiana g<br>Indian Territory cc                    | 60        | 56                                      | dd70                              |                          | 32                        | 48                                      | 56          | 50               | 60           |           |                 |                     | (g)                | 70                | 44        |           |                |           |
| Iowa<br>Kansas                                      | 60<br>60  | $\begin{array}{c} 56 \\ 56 \end{array}$ | 70<br>70                          |                          | 32<br>32                  | 48 48                                   | 56<br>56    | 52<br>50         | 60<br>60     |           |                 |                     | 56                 |                   | 44<br>44  | 56<br>56  |                |           |
| Kentucky h<br>Louisiana i                           | 60<br>60  | 56<br>i 56                              | ee70<br>(i)                       |                          | $\frac{32}{32}$           | h 47<br>i 32                            | 56<br>i 32  | 56<br>(i)        | gg 60<br>(i) | 60<br>(i) |                 |                     |                    |                   | 44<br>(i) | 56<br>(i) |                |           |
| Maine   | 60        | 56                                      |                                   |                          | 32                        | 48                                      |             | 48               | 62           | 60        |                 |                     |                    |                   |           |           |                | -7:5-     |
| Maryland <sup>j</sup><br>Massachusetts <sup>k</sup> | (j)<br>60 | (i)<br>56                               | (i)                               |                          | j 26<br>32                | (j)<br>48                               | (j)<br>56   | (j)<br>48        | (j)<br>60    | (j)<br>60 | 30              | 44                  |                    |                   | (j)       | (j)<br>55 | $\frac{1}{45}$ | (1)       |
| Michigan Minnesota lm                               | 60<br>160 | 56<br>56                                | 70<br>70                          |                          | 32<br>32                  | $\frac{48}{\mathrm{m}48}$               | 56<br>56    | 48 50            | 60<br>60     | 60<br>60  |                 |                     |                    |                   | 44<br>50  | 56        |                |           |
| Mississippi n<br>Missouri o                         | 60        | 56<br>56                                | 72<br>70                          |                          | 32<br>32                  | 48<br>48                                | 56<br>56    | 48<br>52         | gg 60<br>60  | 60        | n 32<br>33      |                     |                    |                   | 44<br>44  | 56<br>56  |                | (0)       |
| Montana   | 60        | 56                                      | 70                                |                          | 32                        | 48                                      | 56          | 52               | 60           | 60        |                 |                     |                    |                   | 44        | 56        |                |           |
| Nebraska <sup>p</sup><br>Nevada <sup>cc</sup>       | 60        | 56                                      | 70                                |                          | 32                        | 48                                      | 56          | 52               | gg 60        | 60        |                 |                     |                    |                   | 44        | 56        |                |           |
| New Hampshire                                       | 60        | 56<br>56                                |                                   |                          | 32                        | 48                                      | 56<br>56    | 50               | 62<br>60     | 60        |                 |                     |                    |                   |           | 55        |                |           |
| New York qr   | -60       | - <u></u> -                             |                                   |                          | 32                        | 48                                      | - <u></u> - | 48               | 60           | 60        | 30              | 44                  |                    |                   |           | r 55      | 45             |           |
| North Carolina<br>North Dakota                      | 60        | 56<br>56                                | 70                                |                          | 32<br>32                  | 48                                      | 56          | 50               | ~            | 60        | 30              |                     |                    |                   |           | 55        | 44             |           |
| Ohio stu  | 60        | 56                                      | 68                                |                          | 32                        | 48                                      | 56<br>56    | 42<br>50         | 60<br>60     | u 60      |                 |                     |                    | t 42              | 44        | 56<br>56  |                | (u)       |
| OkłahomaOregon                                      | 60        | 56<br>56                                | 70                                |                          | 32<br>32                  | $\begin{array}{c} 48 \\ 46 \end{array}$ | 56<br>56    | 42 42            | 60           | 60        |                 |                     |                    |                   |           | 56        |                |           |
| Pennsylvania v                                      | 60        | 56<br>56                                | 70                                |                          | 32<br>32                  | v 47<br>48                              | 56<br>56    | 48               | 60           |           | 30              | 44                  |                    |                   | 44        | 56        |                |           |
| South Carolina w<br>South Dakota                    | -60       | $-\frac{1}{56}$                         |                                   |                          |                           |   | -=          | $-\frac{10}{42}$ |              | -60       | 30              | w 42                |                    |                   | ~         | 56        |                |           |
| Tennessee   | 60        | 56                                      |                                   | 74                       | 32<br>32                  | 48                                      | 56<br>56    | 50               | 60           | 60        | 28              |                     |                    | 70                | 44        | 56        |                | 23        |
| Texas xy Utah cc                                    | 60        | 56                                      | 70                                | 72                       | 32                        | 48                                      | 56          | 42               | gg 60        |           | 32              |                     |                    |                   | 44        | 56        |                |           |
| Vermont<br>Virginia z                               | 60<br>60  | 56<br>56                                | 70                                |                          | 32<br>z 30                | 48<br>48                                | 56<br>56    | 48<br>52         | 62<br>gg 60  | 60        | 32              |                     |                    |                   | 44        | 56        |                | ${22}$    |
| Washington as                                       | 60<br>60  | 56<br>56                                |                                   |                          | 32<br>32                  | 48<br>48                                | 56<br>56    | 42<br>52         |              |           |                 |                     |                    |                   |           | 56<br>56  |                |           |
| Wisconsin bb  | 60        | 56                                      | $\bar{(}^{\bar{d}\bar{d}}\bar{)}$ | )                        | 32                        | 48                                      | 56          | 50               | 60<br>60     | 60        | 30              | 44                  |                    |                   | 44        |           | $ \bar{45} $   |           |
| Wyoming cc  |           |   |                                   |                          |                           |   |             |                  |              |           |                 |                     |                    |                   |           |           |                |           |

Table I.—Legal weights per bushel of seeds—Continued.

|                                 | Grass and forage plants. |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
|---------------------------------|--------------------------|----------|---------------|------------------|----------|---------------------------|--------------|------------|---------|----------------|-------------|-----------------|---------------------|----------------|
| States and Territories.         | Clover.                  | Timothy. | Herd's grass. | Hungarian grass. | Millet.  | Japanese barnyard millet. | Canary seed. | Bluegrass. | Redtop. | Orchard grass. | Amber cane. | Sorghum.        | Kafir corn.         | Johnson grass. |
| Alabama                         |                          |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Arizona                         |                          |          |               |                  | -=       |                           |              |            |         | -=             |             |                 |                     |                |
| Arkansas a                      | 60                       | 60       |               |                  | 50       |                           |              | 14         | 14      | 14             |             | 50              |                     | 28             |
| California bColorado c          | 60                       | 45       |               | (c)              | (c)      |                           |              | 14         | (c)     | (c)            | (c)         |                 | (c)                 | (c)            |
| Connecticut                     | 60                       | 45       | 45            |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Delaware                        |                          |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| District of Columbia cc         |                          |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Florida                         | 60                       | 45       |               |                  | 50       |                           |              | 14         |         |                |             | 56,             |                     |                |
| Georgia <sup>d</sup><br>Idaho   | 60                       | 40       |               |                  |          |                           |              | 14         |         |                |             |                 |                     | V              |
| Illinois ef                     | 60                       | 45       |               |                  |          |                           |              | 14         |         |                |             |                 |                     |                |
| Indiana g                       | 60                       | 45       |               |                  | 50       |                           |              | 14         |         | 14             |             |                 |                     |                |
| Indian Territory cc             |                          |          |               | -=               |          |                           |              |            |         |                |             |                 |                     |                |
| Iowa                            | 60                       | 45       |               | 50               | 50<br>50 |                           |              | 14<br>14   |         |                |             | 30<br>56        | $\overline{56}^{J}$ |                |
| Kansas<br>Kentucky <sup>h</sup> | 60                       | 45       |               | 50               | 50       |                           |              | 14         |         | 14             |             | 90              | 90                  |                |
| Louisiana i                     | (i)                      | (i)      |               | (i)              | (i)      |                           | (i)          | (i)        |         | (i)            |             | (i)             |                     | (i)            |
| Maine                           | 1                        |          | 45            |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Maryland j                      | (j)                      | (j)      |               | (j)              | (j)      |                           |              | (j)        | (j)     | (j)            |             |                 |                     |                |
| Massachusetts k                 | 60                       | 45<br>45 | 45            | 50               | 50       | 35                        |              | 14         | 14      | 14             |             |                 |                     |                |
| Michigan<br>Minnesota lm        | 60                       | 45       |               | 48               | 48       |                           |              | 14         | 14      | 14             |             | $\overline{57}$ |                     |                |
| Mississippi <sup>n</sup>        | 60                       | 45       |               | 50               | 50       |                           |              | 14         |         |                |             | 42              |                     |                |
| Missouri o                      | 60                       | 45       |               | 48               | 50       |                           |              | 14         | 14      | 14             |             | 42              |                     | l              |
| Montana                         | 60                       | 45       |               | 50               | -=       |                           |              | 14         |         |                |             |                 |                     | ļ              |
| Nebraska <sup>p</sup>           | 60                       | 45       |               | 50               | 50       |                           |              | 14         |         |                |             | p30             |                     | ļ              |
| New Hampshire                   |                          |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| New Jersey                      | 64                       |          |               |                  |          |                           |              |            |         |                | 57          |                 |                     |                |
| New Mexico cc                   |                          |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| New York qr                     | 60                       | 45       | 45            |                  |          |                           |              | (r)        | (r)     | (r)            |             |                 |                     |                |
| North Carolina<br>North Dakota  | 60                       | 42       |               |                  | 50       |                           |              |            |         |                |             |                 |                     |                |
| Ohio stu                        |                          | 45       |               | \$50             | u50      |                           | (u)          | (u)        | (u)     | (u)            | (u)         | (u)             | (u)                 |                |
| Oklahoma                        | 60                       | 42       |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Oregon                          | 60                       |          |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Pennsylvania v<br>Rhode Island  | 60                       | 45       |               | 50               | 50       |                           |              |            |         |                |             |                 |                     |                |
| South Carolina w                |                          | 7()      |               |                  | 30       |                           |              |            |         |                |             |                 |                     |                |
| South Dakota                    | 60                       | 42       |               |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Tennessee                       | 60                       | 45       |               | 48               | bb50     |                           | €0           | 14         | 14      | 14             |             | 50              |                     |                |
| Texas xy                        | 60                       | 45       |               | 48               | 50       |                           |              |            |         |                |             |                 |                     |                |
| Vermont                         | 60                       | 45       | 45            |                  |          |                           |              |            |         |                |             |                 |                     |                |
| Virginia z                      | 60                       | 45       |               | 48               | 50       |                           |              | 14         | 12      | 14             |             |                 |                     |                |
| Washington aa                   | 60                       |          |               |                  |          |                           |              |            |         |                | ļ           |                 |                     |                |
| West Virginia                   | 60                       | 45       |               | 40               |          |                           |              |            |         |                |             |                 |                     |                |
| Wisconsin bb                    | 60                       | 45       |               | 48               | 50       |                           |              |            |         |                |             |                 |                     |                |
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Table I.—Legal weights per bushel of seeds—Concluded.

|  |                    | Gra                | ss aı         | nd fo    | rage                 | e pla    | nts.                   |              |             |        | Mi                                     | scell         | laneo         | Miscellaneous. |            |               |        |  |  |  |  |
|--|--------------------|--------------------|---------------|----------|----------------------|----------|------------------------|--------------|-------------|--------|--|---------------|---------------|----------------|------------|---------------|--------|--|--|--|--|
| States and Territories.                  | English bluegrass. | Italian rye-grass. | Velvet grass. | Rape.    | Soy beans.           | Cowpeas. | Velvet beans, in hull. | Beggar weed. | Broom corn. | Spelt. | Castor beans.                          | Osage orange. | Indian wheat. | Apple seed.    | Chestnuts. | Hickory nuts. | Wahmts |  |  |  |  |
| Alabama                                  |                    |                    |               | -        |                      |          |                        |              |             |        |  |               |               |                |            |               | -      |  |  |  |  |
| Arizona                                  |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Arkansas a                               |                    |                    |               |          |                      |          |                        |              | 48          |        |  |               |               |                |            | ·             |        |  |  |  |  |
| California b                             | (c)                |                    |               |          |                      |          |                        |              | (c)         |        |  |               |               |                |            | 1             |        |  |  |  |  |
| Colorado c<br>Connecticut                | (0)                |                    |               |          |                      |          |                        |              | (0)         |        |  |               |               |                |            |               |        |  |  |  |  |
| Delaware                                 |                    |                    |               |          |                      |          | ~                      |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| District of Columbia cc                  |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Florida                                  |                    |                    |               |          |                      |          | 78.                    | 62           |             |        | 48                                     |               |               |                |            |               |        |  |  |  |  |
| deorgia d                                | ~                  |                    |               |          |                      |          |                        |              |             |        |  | 1             |               |                |            |               |        |  |  |  |  |
| dahollinois <sup>ef</sup>                |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| ndiana g                                 |                    |                    |               |          |                      |          |                        |              |             |        | 46                                     | 33            |               |                |            |               |        |  |  |  |  |
| ndian Territory cc                       |                    |                    |               |          |                      |          |                        |              |             |        | 10                                     | 5.5           |               |                |            |               |        |  |  |  |  |
| owa                                      |                    |                    |               |          |                      |          |                        |              | 30          |        | 46                                     | 32            |               |                |            |               | 1      |  |  |  |  |
| Tansas                                   | 22<br>14           |                    |               |          |                      |          |                        |              |             |        | 46                                     |               |               |                |            |               |        |  |  |  |  |
| Kentucky h                               | 14<br>(i)          |                    |               | :        |                      |          |                        |              |             |        | 45                                     |               |               |                |            |               |        |  |  |  |  |
| Louisiana i<br>Laine                     | (1)                | (i)                |               | (i)      |                      | (i)      |                        |              | (i)         |        | (i)                                    | (i)           |               |                |            |               |        |  |  |  |  |
| Saryland j                               |                    |                    |               |          |                      |          |                        | ~            |             |        |  |               |               |                |            |               |        |  |  |  |  |
| lassachusetts k                          |                    |                    |               |          | $\bar{5}\bar{8}^{7}$ |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Iichigan                                 |                    |                    |               |          |                      |          |                        |              |             |        | 46                                     | 33            |               |                |            |               | (L.    |  |  |  |  |
| Iinnesota lm                             |                    |                    |               | 50       |                      |          |                        |              | 57          |        |  |               |               |                |            |               |        |  |  |  |  |
| dississippi n                            |                    |                    |               |          |                      |          |                        |              |             |        | 46                                     |               |               |                |            | (0)           | (c     |  |  |  |  |
| Iissouri o<br>Iontana                    |                    |                    |               |          |                      |          |                        |              |             |        | 46                                     | 36            |               |                |            | (0)           | (0     |  |  |  |  |
| Nebraska p                               |                    |                    |               |          |                      |          | ~                      |              |             |        | 46                                     | 32            |               |                |            |               |        |  |  |  |  |
| Nevada cc                                |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| New Hampshire                            |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Yew Jersey                               |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| New Mexico cc                            |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| New York <sup>qr</sup><br>North Carolina |                    |                    |               | <b>-</b> |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| North Dakota                             |                    |                    |               |          |                      |          |                        |              | 30          | 48     |  |               |               |                |            |               |        |  |  |  |  |
| Ohio stu                                 |                    |                    |               |          |                      |          |                        |              | (u)         |        | $\left( \overline{\mathbf{u}} \right)$ | (u)           |               |                |            |               |        |  |  |  |  |
| Oklahoma                                 |                    |                    |               |          |                      |          |                        |              | 30          |        |  |               |               |                |            |               |        |  |  |  |  |
| Oregon                                   |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Pennsylvania v<br>Rhode Island           |                    |                    |               |          |                      |          |                        |              |             | [      | 46                                     |               |               | 40             |            |               | (      |  |  |  |  |
| South arolina w                          |                    |                    |               |          |                      |          |                        |              |             |        | 40                                     |               |               | 40             |            |               |        |  |  |  |  |
| South Dakota                             |                    |                    |               |          |                      |          |                        |              | 30          |        |  |               |               |                |            |               |        |  |  |  |  |
| 'ennessee                                |                    | 20                 | 7             |          |                      |          |                        |              | 42          |        | 46                                     | 33            |               | 40             | 50         | 50            | 1 1    |  |  |  |  |
| exas xy                                  |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Jtah cc                                  |                    |                    |               |          |                      |          |                        |              |             |        |  |               | 46            |                |            |               |        |  |  |  |  |
| VermontVirginia z                        |                    |                    |               |          |                      | -60      |                        |              |             |        |  | 34            | 40            |                | 57         |               |        |  |  |  |  |
| Washington aa                            |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                | ,,,        |               |        |  |  |  |  |
| West Virginia                            |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Wisconsin bb                             |                    |                    |               | 50       |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |
| Wyoming cc                               |                    |                    |               |          |                      |          |                        |              |             |        |  |               |               |                |            |               |        |  |  |  |  |

<sup>a</sup>The Little Rock Board of Trade uses the legal weights per bushel for the State of Arkansas.

<sup>b</sup>The Merchants' Exchange of San Francisco uses the legal weight per bushel for the State of California for wheat. It also uses the following weights per bushel for the commodities named below:

|               | Pounds. |               | Pounds. |
|---------------|---------|---------------|---------|
| Barley:       |         | Oats:         |         |
| Brewing       |         | Black feed    |         |
| Chevalier     | 53      | Red feed      | 33      |
| Feed          | 41      | White feed    | 35      |
| Buckwheat     | 50      | White milling |         |
| Corn, shelled | 56      | Rye           | 58      |

<sup>e</sup>The Denver Chamber of Commerce and Board of Trade uses the legal weights per bushel for the State of Colorado, except for buckwheat. It also uses the following weights per bushel for the commodities named below:

| Pounds.  | Pounds.  |
|--|--|
| Alfalfa       60         Amber eane       50         Broom corn       46         Buekwheat       50         Flax       56         Hungarian millet (Hungarian grass)       48         Johnson grass       25         Kafir eorn       56 | Meadow fescue (English bluegrass)       24         Millet       50         Orchard grass       14         Peas       60         Redtop       14         Redtop, fancy       32         Sweet eorn       50 |

- d The Columbus Board of Trade uses the legal weights per bushel for the State of Georgia.
- e The Chicago Board of Trade uses the legal weights per bushel for the State of Illinois.
- The Peoria Board of Trade uses the legal weights per bushel for the State of Illinois.
- gThe Indianapolis Board of Trade uses the legal weights per bushel for the State of Indiana. It also uses 56 pounds as the weight per bushel for shelled pop eorn.
- h The Louisville Board of Trade uses the legal weights per bushel for the State of Kentucky, except for barley, for which it uses the weight per bushel of 48 pounds.

i The New Orleans Board of Trade uses the legal weights per bushel for the State of Louisiana for wheat, shelled eorn, and oats. It also uses the following weights per bushel for the commodities named below:

| ties named below.                               | Ponnds.       |                                 | Pounds.          |
|---|---------------|---------------------------------|------------------|
| Alfalfa   | 60            | Meadow oat-grass                | 14               |
| Barley  |               | Millet:                         |                  |
| Beans   | 60            | German                          | 50               |
| Broom eorn                                      | 46            | Italian                         | 50               |
| Buekwheat                                       |               | Mustard                         |                  |
| Bur elover                                      | 8             | Orehard grass                   | 14               |
| Canary seed                                     | 60            | Osage orange                    | 33               |
| Castor beans                                    | 46            | Peas, English:                  |                  |
| Clover:   |               | Smooth                          | 60               |
| Alsike  | 60            | Wrinkled                        | 56               |
| Crimson   | 60            | Radish                          | 50               |
| Red   |               | Rape                            |                  |
| White   |               | Rescue grass                    | 14               |
| Corn:   |               | Rye                             | 56               |
| In ear  | 70            | Rye-grass:                      |                  |
| Shelled, Adams                                  |               | English                         | 20               |
| Cowpeas   |               | Italian                         | 20               |
| Flax  |               | Sorghum                         |                  |
| Hemp  |               | Sunflower, Russian              | 24               |
| Hungarian grass                                 |               | Teosinte                        |                  |
| Japan elover                                    | 25            | Timothy                         | 45               |
| Johnson grass                                   | 25            | Turnip                          | 58               |
| Kentucky bluegrass                              | 14            | Vetch                           |                  |
| Meadow fescue (English bluegrass                | ) 15          |                                 |                  |
| j The Baltimore Chamber of Comties named below: | merce uses th | ne following weights per bushel | for the commodi- |
|   | Pounds.       |                                 | Pounds.          |
| Barley  | 48            | Oats                            | 29               |
| Doorg   |               | Oata (State)                    |                  |

| Pound           | ds.   Pounds.        |
|-----------------|----------------------|
| Barley          | 48 Oats 32           |
| Beans           | 62   Oats (State) 26 |
| Beans (State)   | 60   Orehard grass11 |
| Bluegrass       | 14 Peanuts:          |
|                 | 48 African32         |
|                 |                      |
| Corn:           | Wilmington 28        |
| On cob          | 70 Peas              |
|                 | 56   Peas (State) 56 |
|                 | 56   Redtop:         |
| Hemp            |                      |
| Hungarian grass | 48 Fancy 32          |
| Millet:         | Rye 56               |
| American        | 50 Timothy           |
|                 |                      |
|                 |                      |

k The Boston Chamber of Commerce uses the legal weights per bushel for the State of Massa-

<sup>1</sup>The Duluth Board of Trade uses the legal weights per bushel for the State of Minnesota. It also uses the following weights per bushel for the commodities named below:

| Pounds. | Pounds.                   |
|---------|---------------------------|
| Flax    | Macaroni (durum) wheat 60 |

m The Minneapolis Chamber of Commerce uses the legal weights per bushel for the State of Minnesota, except for barley, for which it uses the weight per bushel of 50 pounds.

 $^{
m n}$  The Meridian Board of Trade uses  $33\frac{1}{3}$  pounds as the weight per bushel for cotton seed.

<sup>o</sup>The Merchants' Exchange of St. Louis uses the legal weights per bushel for the State of Missouri and also uses the following weights per bushel for the commodities named below:

| Pounds.                               | Pounds.   |
|---------------------------------------|-----------|
| Hiekory nuts50 Peanuts, dry southern2 | Walnuts50 |

PThe Omaha Board of Trade uses the legal weights per bushel for the State of Nebraska, except for sorghum, for which it uses the weight per bushel of 50 pounds.

<sup>q</sup> The Buffalo Merchants' Exchange uses the legal weights per bushel for the State of New York.

<sup>r</sup>The New York Produce Exchange uses the legal weights per bushel for the State of New York, except for flax. It also uses the following weights per bushel for the commodities named below:

| Pounds.      | Pounds.         |
|--------------|-----------------|
| Bluegrass 14 | Orchard grass14 |
| Flax         | Redtop 14       |

<sup>8</sup> The Cincinnati Chamber of Commerce and Merchants' Exchange uses the legal weights per bushel for the State of Ohio, except for Hungarian grass, for which it uses the weight per bushel of 48 pounds.

t The Cleveland Chamber of Commerce uses the legal weights per bushel for the State of Ohio, except for pen corp, in ear, for which it uses the weight per bushel of 40 pounds

except for pop corn, in ear, for which it uses the weight per bushel of 40 pounds.

"The Columbus Board of Trade uses the legal weights per bushel for the State of Ohio. It also uses the following weights per bushel for the commodities named below:

|                | Pounds. | 4                     | Pounds. |
|----------------|---------|-----------------------|---------|
| Bluegrass      | 14      | Osage orange          | 33      |
| Broom corn     |         | Peanuts               | 24      |
| Canary seed    | 60      | Pearl millet          | 56      |
| Cane           |         | Peas, wrinkled        |         |
| Castor beaus   | 46      | Redtop                | 14      |
| Japan clover   | 20*     | Sorghum               |         |
| Kafir corn     |         | Sweet vernal grass    | 10      |
| Meadow foxtail | 25      | Tall meadow oat-grass | 12      |
| Orchard grass  | 14      | Wood meadow grass     | 14      |

The Philadelphia Produce Exchange uses the legal weights per bushel for the State of Pennsylvania, except for barley, for which it uses the weight per bushel of 48 pounds.

w The Columbia Chamber of Commerce uses the weight per bushel of 45 pounds for Sea Island cotton seed.

- \*The Galveston Cotton Exchange uses the legal weights per bushel for the State of Texas.
- y The Fort Worth Board of Trade uses the legal weights per bushel for the State of Texas.
- <sup>z</sup>The Richmond Grain and Cotton Exchange uses the weight per bushel of 32 pounds for oats.
- aa The Seattle Chamber of Commerce uses the legal weights per bushel for the State of Washington.

bb The Milwaukee Chamber of Commerce uses the legal weights per bushel for the State of Wisconsin. For corn, on cob, it also uses the weight per bushel of 75 pounds from harvest to January 1 and 70 pounds after January 1.

- cc No legal weights.
- dd "From harvest until December 1, 70 pounds; after December 1, 68 pounds."
- ee "From November 1 to May 1, 70 pounds; from May 1 to November 1, 68 pounds."
- ff" Small white beans, 60 pounds; other beans, 55 pounds."
- gg "White beans."
- hh "German, Tennessee, and Missouri millet."

Table II.—Seedsmen's customary weights per bushel of seeds.

| Kind of seed.        | Pounds<br>per bushel. | Kind of seed.  | Pounds<br>per bushel |
|----------------------|-----------------------|--|----------------------|
| Alfalfa              | 60                    | Meadow grass-continued.                                    |                      |
| Amber cane           |                       | Wood   | 14-24                |
| Bent grass: Creeping | 10-20                 | Millet :<br>  Barnyard                                     | 30-60                |
| Rhode Island         | 10-20                 | Broom corn   | 45-60                |
| Bermuda grass        | 24-36                 | Common   | 48-50                |
| Bird'sfoot clover    | 60                    | German   | 48-50                |
| Bitter vetch         | 60                    | Golden Wonder  | 48-50                |
| Bluegrass:           | 14.00                 | Hungarian  | 48-50                |
| Canada<br>Kentucky   |                       | Pearl<br>Milo maize  | 48-56<br>50-60       |
| Texas                |                       | Oat-grass:   | 30-00                |
| Broad bean           | 50-60                 | Tall   | 10-14                |
| Brome, awnless       | 10-14                 | Yellow   | 7-14                 |
| Broom corn           | 45-60                 | Orange cane  | 45-60                |
| Bur clover:          | 00                    | Orchard grass  | 10-18                |
| Hulled<br>Unhulled   | 60                    | Pea :<br>  Field   | 60                   |
| Spotted              | 8-10<br>60            | Garden, smooth   | 60                   |
| Castor bean          | 46-60                 | Garden, wrinkled   | 56                   |
| Clover:              |                       | Peanut   | 20-30                |
| Alsike               |                       | Rape, winter   | 50-60                |
| Crimson              |                       | Redtop:  | 10.14                |
| Egyptian             | 60                    | Chaff  | 10-14                |
| Mammoth<br>Red       | 60                    | Rescue grass   | 25-40<br>12-28       |
| White                |                       | Rice   |                      |
| Cowpea               | 56-60                 | Rye-grass:   | 10 10                |
| Crested dog's-tail   | 14-30                 | English  | 10-30                |
| Fescue:              | 10.10                 | Italian  | 14-25                |
| Hard                 |                       | Sainfoin   |                      |
| Meadow<br>Red        | 14-24<br>12-15        | Serradella   | 28-36<br>58-60       |
| Sheep's              | 12-16                 | Soy bean<br>  Spelt  | 40-60                |
| Tall                 | 14-24                 | Sunflower  | 24-50                |
| Various leaved       | 14-18                 | Sweet clover:  |                      |
| Flat pea             |                       | Hulled   |                      |
| Flax                 | 48-56                 | Unhulled   | 33                   |
| Hemp                 | 40-60                 | Sweet corn (according to variety). Sweet vernal, perennial |                      |
| Japan clover: Hulled | 60                    | Teosinte   | 6-15<br>40-60        |
| Unhulled             | 18-25                 | Timothy  |                      |
| Johnson grass        |                       | Velvet beau  | 60                   |
| Kafir corn           | 50-60                 | Vetch:   |                      |
| Lentil               | 60                    | Hairy  | 50-60                |
| Lupine, white        | 50-60                 | Spring   | 60                   |
| Meadow foxtail       | 7-14                  | Water grass, large<br>Wild rice                            | $14 \\ 15-28$        |
| Fowl                 | 11-14                 | Yellow trefoil   | 60                   |
| Rough-stalked        | 14-20                 | 201011 01010111111111111111111111111111                    |                      |

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